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[CN/CN]; Philips Electronics China, 21/F Kerry Office
Building 218 Tian Mu, Xi Road, Shanghai 200070 (CN).

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(74) Common Representative: **KONINKLIJKE PHILIPS
ELECTRONICS N.V.**; c/o HAQUE, Azir, Philips Elec-
tronics China, 21/F Kerry, Office Building, 218 Tian Mu
Xi Lu Road, Shanghai 200070 (CN).

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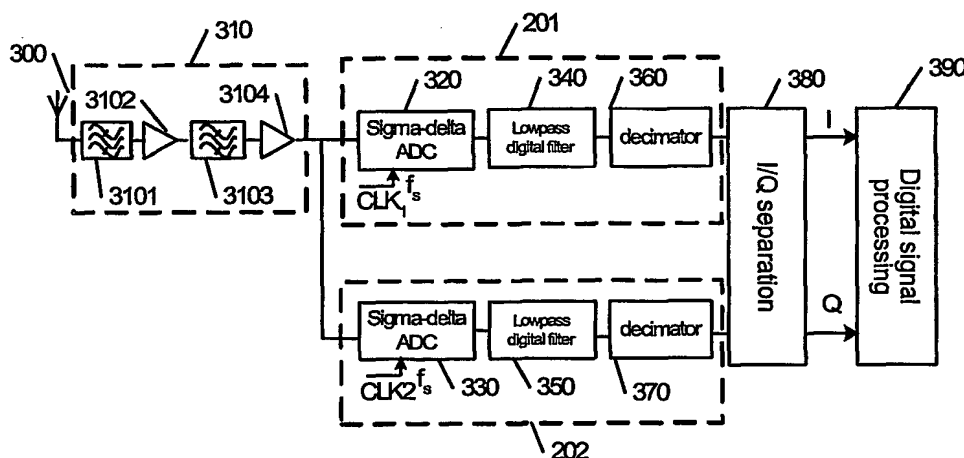
(71) Applicant (for all designated States except US): **KONIN-
KLJKE PHILIPS ELECTRONICS N.V.** [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **QIAN, Xuecheng**

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(54) Title: NEW RECEIVER ARCHITECTURE FOR WIRELESS COMMUNICATION



(57) Abstract: A bandpass-sampling receiver is proposed, comprising: the first Sigma-delta ADC, for converting the received RF signal into the first channel of digital signal under the control of the first sampling clock signal; the second Sigma-delta ADC, for converting the received RF signal into the second channel of digital signal under the control of the second sampling clock signal; a signal separating unit, for separating the in-phase signal and the quadrature signal in the first channel of digital signal and the second channel of digital signal. Low-resolution Sigma-delta ADC is adopted to sample and quantize the analog RF signal, thus the bandpass sampling receiver can save cost of ADCs.



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